

FY 2005 EXCHANGE NETWORK GRANT PROGRAM AWARDS ¹
Office of Environmental Information
U.S. Environmental Protection Agency
Revised August 23, 2005

| FY 2005 EXCHANGE NETWORK GRANT PROGRAM – TOTALS | | |
|--|---|-------------------------------|
| Type of Recipient | Total Number of Awards | Total Amount of Awards |
| Tribes | 6 Readiness, 6 Implementation, 1 Challenge = 13 | \$1,648,264 |
| States | 3 Readiness, 31 Implementation, 10 Challenge = 44 | \$16,664,154 |
| Territories | 0 Readiness, 2 Implementation, 0 Challenge = 2 | \$300,000 |
| All Recipients | 59 | \$18,612,418 |

¹ This list is for internal U.S. EPA use only until the awards have been issued and mailed to recipients by EPA's Grants Administration Division. For information about the current status of the awards, please contact Rebecca Moser at (202) 566-1679.

FY 2005 EXCHANGE NETWORK GRANT PROGRAM – RECIPIENTS

| Recipient Name | Project Description and Location | Award Amount |
|---|--|---------------------|
| EXCHANGE NETWORK TRIBAL READINESS AWARDS | | |
| Columbia River Inter-Tribal Fish Commission | The Columbia River Inter-Tribal Fish Commission (CRITFC), located in Portland, Oregon, will develop an Exchange Network node. The node will provide CRITFC member tribes and other potential partners with real-time Internet access to environmental and environmentally-related datasets that are specific to the CRITFC. This is expected to be the first phase of a multi-year project. | \$75,000 |
| Jamul Indian Village of California | The Jamul Indian Village of California will build on previously privately-funded projects to build a Local Area Network (LAN) within the Tribal Government offices. The award will be used to train information technology (IT) personnel and to educate tribal members about the use of IT and the Exchange Network. The LAN will facilitate the development an Exchange Network node client. | \$75,000 |
| Seldovia Village Tribe, Alaska | The Seldovia Village Tribe of Alaska will hire an Information Specialist, purchase needed computer hardware and software, and develop an Exchange Network node. The new information system capabilities that will be developed will support new modes of research and facilitate the exchange of data and information between the Tribe’s environmental program and U.S. EPA. | \$75,000 |
| Shoalwater Bay Tribe of the Shoalwater Bay Indian Reservation, Washington | The Shoalwater Bay Tribe of the Shoalwater Bay Indian Reservation, Washington, will improve its data collection infrastructure and enhance the accessibility of data within the Willapa Bay watershed for use by decision-makers. The project will make it possible for the Tribe to provide access to geospatial representations of water quality data using the Web. | \$75,000 |

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| Shoshone-Bannock Tribes of the Fort Hall Reservation of Idaho | The Shoshone-Bannock Tribes of the Fort Hall Reservation of Idaho, Water Resources Department, will expand the ResourceVue system, an automated water resources tracking and permitting system, and develop translation and validation tools for the exchange of water quality monitoring data. The tools developed will allow the Shoshone-Bannock Tribes to upload water quality data easily and provide a central repository for water quality data. | \$75,000 |
| Snoqualmie Tribe, Washington | The Snoqualmie Tribe, Washington, will maintain a secure interactive Web site database that will provide easy access to environmental data. New hardware will include a dedicated server for modeling projections of environmental conditions and geospatial activity and a STORET Exchange Network Web server. | \$75,000 |
| EXCHANGE NETWORK TRIBAL IMPLEMENTATION AWARDS | | |
| Cherokee Nation, Oklahoma | The Cherokee Nation, Oklahoma will implement a Facility Registry System (FRS) data flow, validate existing FRS data, establish Trading Partner Agreements with other Exchange Network partners, and begin exchanging data about tribal open dump sites. The Cherokee Nation's Exchange Network node is expected to be operational by December 2005. | \$150,000 |
| Hannahville Indian Community, Michigan | The Hannahville Indian Community, Michigan, will develop the capabilities needed to store and manipulate a variety of data. The project will initially focus on transforming existing data into standardized, compatible electronic formats, so the data can be more easily shared and used. | \$150,000 |

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| Kootenai Tribe of Idaho | The Kootenai Tribe of Idaho will implement an Air Quality System (AQS) data flow using the Exchange Network. It will provide real-time Web-based air quality and meteorological data to other Exchange Network partners and the public. The Tribe may also develop and implement a geospatial interface for presenting the data. | \$150,000 |
| Navajo Nation, Arizona, New Mexico, & Utah | The Navajo Nation of Arizona, New Mexico, and Utah, will implement a variety of Exchange Network data flows, such as those for the National Emissions Inventory (NEI), the Safe Drinking Water Information System (SDWIS), Underground Injection Control (UIC), and the Facility Registry System (FRS). The project will include mapping existing data to the eXtensible Markup Language (XML) schema for NEI and FRS and establishing Trading Partner Agreements for exchanging data with other Exchange Network partners. The project builds on previous Exchange Network awards that the Navajo Nation received which are being used to build a fully operational Exchange Network node. | \$150,000 |
| Salt River Pima-Maricopa Indian Community of the Salt River Reservation, Arizona | The Salt River Pima-Maricopa Indian Community of the Salt River Reservation, Arizona, will implement Exchange Network data flows for the National Emissions Inventory (NEI) and the Facility Registry System (FRS). This project will include enhancing databases that contain NEI and FRS data, mapping NEI and FRS data to eXtensible Markup Language (XML) schema, establishing geospatial data management techniques and geographic information systems (GIS) applications, and developing Trading Partner Agreements for exchanging data with other partners. | \$148,264 |

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| Yurok Tribe of the Yurok Reservation, California | The Yurok Tribe of the Yurok Reservation, California, will expand the availability of Klamath River water quality monitoring data through the Tribe's Web and FTP sites. In addition, the Tribe will upload air quality data to U.S. EPA's Air Quality System (AQS) using the Exchange Network. The Tribe will use its Exchange Network node client to implement data flows and transmit data to U.S. EPA. | \$150,000 |
| EXCHANGE NETWORK TRIBAL CHALLENGE AWARDS | | |
| Walker River Paiute Tribe of the Walker River Reservation, Nevada | The Walker River Paiute Tribe of the Walker River Reservation, Nevada, will implement the Tribal Environmental Exchange (TRES) Network and seek to recruit and train five tribes from across the United States that are conducting continuous ambient air monitoring. Participation in the project will be governed by a set of agreed-upon programmatic conditions. | \$300,000 |
| EXCHANGE NETWORK STATE READINESS AWARDS | | |
| Alabama, Department of Environmental Management | The Alabama Department of Environmental Management will upgrade its legacy mainframe system, upgrade data circuits and network hardware, train employees, develop departmental documentation, and implement an Exchange Network node. | \$150,000 |
| Arkansas, Department of Environmental Management | The Arkansas Department of Environmental Quality will purchase the hardware and software necessary to establish an Exchange Network node and test and validate the functionality of the node. | \$150,000 |

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|---|--|---------------------|
| Tennessee, Department of Environment and Conservation | The Tennessee Department of Environment and Conservation will implement and enforce data quality measures, acquire the hardware and software needed to implement an Exchange Network node, and use the node to develop and test the exchange of Facility Registry System (FRS) data. | \$150,000 |
| EXCHANGE NETWORK STATE IMPLEMENTATION AWARDS | | |
| Arizona, Department of Environmental Quality | The Arizona Department of Environmental Quality will expand the functionality of its Exchange Network node to support data flows for Pollution Prevention and the National Emissions Inventory (NEI), make preparations to exchange drinking water quality data, and support the exchange of homeland security-related geospatial data. | \$300,000 |
| Colorado, Department of Public Health and Environment | The Colorado Department of Public Health and Environment will develop a water quality monitoring data flow using the Exchange Network, enhance and build an interface to its ECOMAP Facility Registry System (FRS) geospatial database, develop an enterprise architecture plan, and develop a reporting system prototype for the Hazardous Materials and Waste Management Division. | \$300,000 |
| Delaware, Department of Natural Resources and Environmental Control | The Delaware Department of Natural Resources and Environmental Control will submit data for Underground Injection Control and Toxic Release Inventory System to EPA’s Central Data Exchange using the Exchange Network. In addition, Delaware will participate in the development of an eXtensible Markup Language (XML) schema for Air Facility System data flows, publish beaches monitoring data using Web services, and utilize Facility Registry System data from Maryland and Pennsylvania through Web services. | \$300,000 |

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|---|---|---------------------|
| Georgia, Department of Natural Resources | The Georgia Department of Natural Resources will implement its Environmental Facilities Information System (EFIS, originally developed by the South Carolina Department of Health and Environmental Control) and develop a data flow for submitting Source Water Area (SWA) polygonal data to U.S. EPA's using the Exchange Network. | \$298,300 |
| Hawaii, Department of Health | The Hawaii Department of Health will integrate all media programs and update its current database. Once completed, the data will be reconciled and made compatible with EPA's Facility Registry System (FRS) data format. The Department will also complete the development of an Exchange Network node and use it to flow FRS data. | \$300,000 |
| Idaho, Department of Environmental Quality | The Idaho Department of Environmental Quality (DEQ) will implement a Facility Registry System data flow, as well as map its Safe Drinking Water System (SDWIS) data to SDWIS/Fed using Web services. The Idaho DEQ will also map its air emissions data to U.S. EPA's National Emissions Inventory system using Web services. The Idaho DEQ already has an operational Exchange Network node, and during the course of this project, it plans to execute Trading Partner Agreements for all established data flows. | \$300,000 |
| Illinois, Environmental Protection Agency | The Illinois Environmental Protection Agency will implement XML-formatted data flows of Air Quality System (AQS) and Source Water Protection (SWP) data. The SWP component of the project will include the exchange of geospatial data and the publication of SWP data on the Exchange Network for other partners to use via Web services. | \$300,000 |
| Indiana, Department of Environmental Management | The Indiana Department of Environmental Management will utilize its Exchange Network node to implement data flows between its RCRA Activity Tracking System (IRATS) and EPA's RCRAInfo databases. | \$104,466 |

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| Iowa, Department of Natural Resources | The Iowa Department of Natural Resources (DNR) will develop or improve four data flows from the Department to U.S. EPA using its operational Exchange Network node. Data flows for the Facility Registry System and the National Emissions Inventory will be improved, while the Department’s databases that contain data that are relevant to Source Water Protection and the Institutional Controls Tracking System will be prepared so that the data can be exchanged using the Exchange Network. | \$300,000 |
| Kentucky, Department of Environmental Protection | The Kentucky Department of Environmental Protection (DEP) will provide National Emissions Inventory (NEI) data and Air Facility System (AFS) data to U.S. EPA and other partners using the Exchange Network. This project will involve mapping and transforming data to the approved eXtensible Markup Language (XML) schema for NEI and AFS. Kentucky DEP is in the process of completing its development of an Exchange Network node. | \$230,000 |
| Maine, Department of Environmental Protection | The Maine Department of Environmental Protection will enhance its current flow of Facility Registry System data using the Exchange Network and add data flows for the National Emissions Inventory and the Permit Compliance System. It will also provide new support for the Department to receive air emissions reports from regulated facilities and enhance the publication of bio-monitoring and facility data for use by the public. The project will utilize Web-based data collection approaches for obtaining data on facility air emissions. | \$300,000 |
| Massachusetts, Department of Environmental Protection | The Massachusetts Department of Environmental Protection will implement data flows from its drinking water database to the Source Water Protection (SWP) modules of U.S. EPA’s Safe Drinking Water Information System (SDWIS) and from its water quality monitoring databases to U.S. EPA’s Water Quality Monitoring system. The Massachusetts DEP currently does not transfer data to EPA’s Water | \$300,000 |

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|--|---|---------------------|
| | Quality Monitoring system, nor does it maintain a local copy of data in this system. | |
| Missouri, Department of Natural Resources | The Missouri Department of Natural Resources will upgrade its existing Facility Registry System data flow to include geospatial data and implement an Exchange Network data flow to the Resource Conservation and Recovery Act Information System (RCRAInfo). The project will make it possible for the state to begin exchanging environmental and related data more efficiently with U.S. EPA and other Exchange Network partners. | \$299,564 |
| Montana, Department of Environmental Quality | The Montana Department of Environmental Quality (DEQ) will implement data flows for the Air Facility System and Safe Drinking Water Information System using its operational Exchange Network node. The project will make it possible for Montana DEQ to provide more current environmental information to the public and continue to build on its Exchange Network partnerships. | \$299,975 |
| Nevada, Department of Conservation and Natural Resources | The Nevada Department of Conservation and Natural Resources will improve the quality and accessibility of state-regulated facility data and expand its use of the Exchange Network to include the flow of facility data to U.S. EPA's Facility Registry System. The project will include the reconciliation of facility data for air and water pollution control programs, making it easier to gain access to, use, and integrate the data. | \$300,000 |

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| New Hampshire, Department of Environmental Services | The New Hampshire Department of Environmental Services will continue to develop and maintain its Exchange Network node and enhance the exchange of water quality monitoring data. The project will involve linking water quality stations to the National Hydrography Dataset and implementing the Geospatial One Stop hydrography data standard. | \$290,290 |
| New Mexico, Environment Department | The New Mexico Environment Department will improve its existing Exchange Network node infrastructure, including building a user interface, implementing a data flow for the Safe Drinking Water Information System (SDWIS) and enabling the receipt of data from certified laboratories using electronic Drinking Water Report (e-DWR) standards and Exchange Network node client software. | \$300,000 |
| New York, Department of Environmental Conservation | The New York Department of Environmental Conservation (DEC) will build upon its existing node infrastructure, as well as the work done by other states, to receive laboratory data for ambient soil and water data from DEC contract laboratories electronically. The availability of data electronically will make it possible to receive more timely and accurate data. | \$300,000 |
| North Carolina, Department of Environment and Natural Resources | The North Carolina Department of Environment and Natural Resources (DENR) will upgrade its Exchange Network infrastructure to enhance its scalability and security. The DENR will also develop an enterprise repository for reporting data for the Safe Drinking Water Information System (SDWIS) and the Resource Conservation and Recovery Act Information system (RCRAInfo) to U.S. EPA and other partners using the Exchange Network. | \$300,000 |

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| North Dakota, Department of Health | The North Dakota Department of Health will enhance its air quality permitting/compliance database to ensure that valid data will be transferred using its Exchange Network node. The Department will also update its program database for the National Pollutant Discharge Elimination System (NPDES) by integrating all permit databases into its main database (known as PANDA). | \$300,000 |
| Oklahoma, Department of Agriculture, Food, and Forestry | The Oklahoma Department of Agriculture, Food, and Forestry will develop a georeferenced database for the State of Oklahoma, build an Internet-based data viewer, and build an Exchange Network node, enabling the Department to begin exchanging environmental data with EPA and other partners. | \$300,000 |
| Oregon, Department of Environmental Quality | The Oregon Department of Environmental Quality will convert its data systems to the Integrated Compliance Information System – National Pollutant Discharge Elimination System (ICIS-NPDES); participate in the development of water quality data standards; develop schema validation tools for the Pacific Northwest Water Quality Data Exchange (PNWDX) flow; and test a specialized client for non-node data submissions to improve the means of collecting data for distribution over the Exchange Network. | \$299,986 |
| South Carolina, Department of Health and Environmental Control | The South Carolina Department of Health and Environmental Control will continue developing data flows for the National Emissions Inventory, the Resource Conservation and Recovery Act Information System, the Toxics Release Inventory, the Integrated Compliance Information System – National Pollutant Discharge Elimination System, and wastewater inspection purposes. The project will also develop processes and programs to improve the quality of the data that are shared with others using the Exchange Network. | \$300,000 |

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|---|--|---------------------|
| Texas, Commission on Environmental Quality | The Texas Commission on Environmental Quality will accelerate the development of an eXtensible Markup Language (XML) schema for water quality monitoring data, map their data to the schema, and begin flowing the data to U.S. EPA and others using the Exchange Network. | \$300,000 |
| Utah, Automated Geographic Reference Center | The Utah Automated Geographic Reference Center (AGRC) will develop, populate, and maintain an accessible, standards-based geospatial database and information system that will be useful to other Exchange Network partners, environmental decision-makers in the state and elsewhere, and the public. | \$300,000 |
| Utah, Department of Environmental Quality | The Utah Department of Environmental Quality will implement and/or enhance Exchange Network data flows for the National Emissions Inventory, the Safe Drinking Water Information System, the Resource Conservation and Recover Act Information System, and water quality monitoring. It will integrate the state’s Laboratory Information Management System (LIMS) into the Department’s environmental programs database. | \$300,000 |
| Vermont, Agency of Natural Resources | The Vermont Agency of Natural Resources will enhance the electronic flow of Vermont-specific environmental data to the U.S. EPA using its Exchange Network node. The project will include enhancing the flow of Facility Registry System data over the Exchange Network; developing a new XML-based data handling process for water quality monitoring data (i.e., STORET), in preparation for flowing such data over the Exchange Network; and developing a Source Water Protection data flow that will provide periodic updates to U.S. EPA. | \$298,000 |

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|---|--|---------------------|
| Washington, Department of Ecology | The Washington Department of Ecology will continue expanding its use of the Permit Compliance System – Intermediate Data Exchange Format (PCS-IDEF), develop and implement the new schema for the Integrated Compliance Information System – National Pollutant Discharge Elimination System (ICIS-NPDES), and begin using Web services via the Exchange Network. | \$297,488 |
| West Virginia, Department of Environmental Protection | The West Virginia Department of Environmental Protection will implement an approved CROMERRR-compliant electronic Discharge Monitoring Report (e-DMR) system. The Department staff plan to identify and visit each Sanitary Sewer/Combined Sewer Overflow (SSO/CSO) outfall and record the geographic location of each site so the data can then be used along with geographic information system (GIS) tools to enhance the flow of e-DMR data through the Exchange Network. | \$285,000 |
| Wisconsin, Department of Natural Resources | The Wisconsin Department of Natural Resources will enhance its operational Exchange Network node and implement additional data flows with U.S. EPA and other partners. This project will provide critical support for the state’s Surface Water Integrated Monitoring system (SWIMS) and help the state enhance its Air Quality Monitoring system. | \$300,000 |
| Wyoming Department of Environmental Quality | The Wyoming Department of Environmental Quality will develop the capacity to report and exchange data using the Exchange Network. The project will involve modernizing the state databases for flowing data to the Integrated Compliance Information System – National Pollutant Discharge Elimination System (ICIS-NPDES), enhancing the Underground Injection Control database and data flows, and working in partnership on with the state of Montana to implement Exchange Network data flows. | \$297,050 |

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| EXCHANGE NETWORK STATE CHALLENGE AWARDS | | |
| Arizona, Department of Environmental Quality | The Arizona Department of Environmental Quality (DEQ) will share ambient air quality and human health data with other state agencies, with the goal of analyzing and understanding the relationship between childhood asthma and ambient air quality in Arizona. The project will utilize Arizona DEQ’s Exchange Network node. | \$750,000 |
| California, Department of Pesticide Regulation | The California Department of Pesticide Regulation will construct a Web-based, integrated pesticide use tracking system (PestTrak) to exchange data with other state, local, and federal entities through the California Environmental Protection Agency’s node on the Exchange Network. PestTrak will be designed to comply with federal and state data exchange standards. | \$750,000 |
| Colorado, Department of Public Health and Environment | The Colorado Department of Public Health and Environment (CDPHE) will implement new Exchange Network flows of regional and national pollution prevention (P2) measurement data. The project will be a collaborative effort involving the CDPHE Office of the Environment and the national P2Rx Centers, and it will be carried out in cooperation with various national P2 programs. | \$744,035 |
| Maryland, Department of the Environment | The Maryland Department of the Environment (MDE) will plan and implement the seamless generation, exchange, integration and visualization of drinking water quality data and surface water monitoring data for use by the state and other Exchange Network partners. | \$750,000 |

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| Michigan, Department of Environmental Quality | The Michigan Department of Environmental Quality will create an eManifest system to reduce the reporting burden associated with using paper-based hazardous waste manifests. An eManifest system will eliminate much of the reporting burden associated with current hazardous waste tracking processes and make it easier and faster to collect, validate, and process the data. | \$750,000 |
| Minnesota, Land Management Information Center | The Minnesota Land Management Information Center will expand selected Exchange Network data flows to include updates to National Hydrography Dataset (NHD) geospatial data. This project will be conducted in coordination with EPA's Office of Water. | \$470,000 |
| Montana, Department of Natural Resources and Conservation | The Montana Department of Natural Resources and Conservation will establish an Exchange Network node that will be used by oil and gas agencies in Nebraska, California, Utah, North Dakota, Arkansas, and Alaska. The Ground Water Protection Council will participate in the project as one of the project partners. | \$750,000 |
| Nebraska, Department of Environmental Quality | The Nebraska Department of Environmental Quality will provide Web-based information for environmental, human health, and natural resource issues to enhance state and regional decision-making processes and risk assessments that relate to homeland security and emergency response. | \$750,000 |
| New Jersey, Department of Environmental Protection | The New Jersey Department of Environmental Protection will develop a water quality monitoring data exchange for multiple state agencies and local partners. Water quality data are currently tracked by many organizations within the state, and by creating a shared Exchange Network node and water quality data flow, the state will be able to provide and analyze water quality data more quickly. | \$750,000 |

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| Texas, Commission on Environmental Quality | The Texas Commission on Environmental Quality will develop a generic, open standards-based, and documented electronic Discharge Monitoring Report (e-DMR) system. This system can be integrated with the Integrated Compliance Information System – National Pollutant Discharge Elimination System (ICIS-NPDES), and it will be designed for use by states with locally-maintained NPDES systems, as well as for use by states that rely on the U.S. EPA’s system. | \$750,000 |
| EXCHANGE NETWORK TERRITORIAL READINESS AWARDS | | |
| Commonwealth of the Northern Mariana Islands | The Commonwealth of the Northern Mariana Islands (CNMI) Division of Environmental Quality will develop an Exchange Network node, making it possible to transmit and increase access to CNMI’s environmental data across program, agency, and federal/territorial lines. | \$150,000 |
| U.S. Virgin Islands | The U.S. Virgin Islands will establish an operational Exchange Network node and develop approximately two Exchange Network data flows. | \$150,000 |